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UENO EIZABURO;**Assignee: **ASAHI CHEM IND CO LTD**
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Abstract:

PROBLEM TO BE SOLVED: To obtain a mixture of butanediol and a specific diol in high yield by allowing a mixture of succinic acid and a specific dicarboxylic acid to react with hydrogen in the presence of a specific catalyst and water.

SOLUTION: A mixture of (A) succinic acid and (B) a dicarboxylic acid of the formula: HOOC-R-COOH (R is a 3-20C saturated divalent hydrocarbon), (C) hydrogen are allowed to react with each other in the presence of (D) a catalyst prepared by carrying one or more metals selected from ruthenium and tin, rhenium, molybdenum, palladium, silver and nickel supported by carbon carrier that is preliminarily treated with steam and/or carbon dioxide and (E) water under a pressure of 1-25 Mpa, at 100-300°C to obtain a mixture of 1,4- butandiol and a diol of the formula: $\text{HO-CH}_2\text{-R-CH}_2\text{OH}$. As a mixture of the component A and the component B, are cited preferably a mixtures of dicarboxylic acids including the component A, glutaric acid and adipic acid.

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(54) PRODUCTION OF DIOLS

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